|          |          | 1       | Rejected           |          |          |              |          |                   | [-                             | ,         | (Through numeral)<br>Cancelled |          |          |            |          |          |              |              | N               | Non-Elected |  |          |             |      |            | A        |         | Appeal       |         |          |              |           |          |          |
|----------|----------|---------|--------------------|----------|----------|--------------|----------|-------------------|--------------------------------|-----------|--------------------------------|----------|----------|------------|----------|----------|--------------|--------------|-----------------|-------------|--|----------|-------------|------|------------|----------|---------|--------------|---------|----------|--------------|-----------|----------|----------|
|          |          | =       | A                  | llov     | ve       | đ            |          |                   | +                              |           |                                | Re       | stri     | cte        | d        |          |              |              | ı               | In          | terf   | ere      | nce         |      |            | 0        | (       | ОЬ           | jec     | te       | d            |           |          |          |
| Claim    |          | Г       | Date               |          |          |              |          |                   |                                |           | ):::::                         | CI       | aim      |            |          |          |              | Date         |                 | Cla         |  |          |             | laim |            |          | Date    |              |         |          |              | _         |          |          |
|          |          | 1       |                    | П        | Ť        |              |          |                   | Π                              | I         |                                |          |          | $\vdash$   | Г        | Γ        | Τ            |              | Ĭ               |             | Т  | $\dashv$ |             | T    |            | Т        | Τ       | Т            | Ť       | T        | П            |           |          | Τ        |
| Final    | Original | 4/20/05 |                    |          |          |              |          |                   |                                |           |                                | Final    | Original |            |          |          |              |              |                 |             |  |          | Final       |      | Original   |          |         |              |         |          |              |           |          |          |
|          | 1        | =       |                    |          |          |              |          | Ŀ                 |                                |           |                                |          | 51       | 1          |          |          |              |              |                 |             | I  |          |             |      | 01         |          | İ       | 1            | 1       | 士        |              |           |          |          |
|          | 2        | =       | _                  | _        | _        | _            | _        | <u> </u>          | L                              | <u> </u>  |                                |          | 52       | =          | _        |          | <u> </u>     |              | L               |             | $\perp$  | _        | <u> </u>    |      | 02         |          | 1       | $\perp$      | 1       | _        | _            |           |          |          |
|          | 3        | =       | $\overline{\cdot}$ |          | _        | ᅰ            |          |                   | H                              | -         |                                | <u> </u> | 53       |            | ⊢        | _        | <del> </del> | -            | $\square$       | _           | +  | -        | -           |      | 03         | +        | +       | +            | +       | 4        | 4            |           |          | -        |
| -        | 5        | -       | $\dashv$           |          | -        |              |          | ┝                 | ├                              | ╁         | ł                              |          | 54<br>55 | ⊢          | ┢        | $\vdash$ | ┢            | ⊢            | $\vdash$        | -+          | +  | -        | <b></b>     |      | 04<br>05   | +        | ╁       | +            | +       | +        |              |           | _        | ⊢        |
|          | 6        | =       | $\dashv$           | $\dashv$ | $\dashv$ | _            |          | $\vdash$          | $\vdash$                       | 1         | 1                              |          | 56       |            | $\vdash$ | $\vdash$ | <del> </del> | -            | $\vdash$        | $\dashv$    | $\dashv$   | - ::     | -           |      | 06         | +        | t       | +            | +       | $\dashv$ |              | Н         |          | $\vdash$ |
|          | 7        | =       |                    | ╛        | ╛        | ╛            |          |                   |                                |           |                                |          | 57       |            |          |          |              |              |                 | 寸           | _  |          |             |      | 57         | $\top$   | †       | $\dagger$    | +       | $\dashv$ | $\dashv$     | $\dashv$  |          | Τ        |
|          | 8        | =       | $\Box$             | $\Box$   |          |              |          |                   |                                |           | ]                              |          | 58       |            |          |          |              |              |                 |             | $\perp$  |          |             | 10   | 08         |          | Ι       | l            | 1       |          |              |           |          |          |
| _]       | 9        | =       | $\perp$            | $\perp$  | _        | _            |          |                   | $oxedsymbol{oxedsymbol{oxed}}$ |           |                                |          | 59       |            |          |          | Ĺ            |              |                 | $\perp$     | $\perp \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$ | _        |             |      | 9          |          | T       | Ţ            | $\perp$ | $\perp$  | J            | $\Box$    |          |          |
| _        | 10       | =       |                    | $\dashv$ | 4        | 4            |          | $ldsymbol{f eta}$ | $\vdash$                       | $\vdash$  |                                | <u> </u> | 60       | _          | _        | _        | <u> </u>     | _            | Ш               | -           | $\perp$  | 4        | <u> </u>    |      | 10         | $\perp$  | 4       | 4            | 4       | 4        | $\downarrow$ | _         | <u></u>  | $\vdash$ |
| -        | 11       | =       | $\dashv$           | $\dashv$ | $\dashv$ |              | _        | L                 | -                              | $\vdash$  | 1                              |          | 61       | ├-         |          | _        | H            | <u> </u>     | $\vdash$        | $\dashv$    | -  |          | <u> </u>    | 1    |            |          | +       |              | +       | +        | 4            | _         |          | L        |
| $\dashv$ | 12<br>13 | =       | $\dashv$           | $\dashv$ | $\dashv$ | $\dashv$     |          | Η-                | $\vdash$                       | $\vdash$  | ł                              |          | 62<br>63 | -          | -        | -        | $\vdash$     | $\vdash$     | $\vdash \vdash$ | +           | +  | - :::    | <u> </u>    | 11   | 12         | -        | +       | +            | +       | +        | $\dashv$     | -         |          | $\vdash$ |
| _        | 14       | =       | $\dashv$           | $\dashv$ | +        |              |          | -                 | ╁╴                             | $\vdash$  |                                |          | 64       | ┝          | $\vdash$ | ├        | $\vdash$     |              | H               | 十           | ╅  | -        | <u> </u>    |      | 14         | +        | +       | ╅╴           | +       | +        | $\dashv$     | -         |          | $\vdash$ |
|          | 15       | =       |                    | $\dashv$ | 寸        | 寸            |          |                   | T                              | 1         | 1                              |          | 65       | <u> </u>   | 1        | $\vdash$ |              |              | H               | 1           | +  | ١        |             | 1    | 15         | +        | 十       | +            | +       | $\dashv$ | $\dashv$     | $\dashv$  |          | ┢        |
|          | 16       | =       |                    |          |          | T            |          |                   | T                              |           | 1                              |          | 66       |            | $\vdash$ | $\vdash$ | Г            |              | Ħ               | T           | 1  | 7        |             |      | 16         |          | T       | +            | +       |          | $\dashv$     | $\exists$ |          | T        |
|          | 17       | =       |                    |          |          |              |          |                   |                                |           |                                |          | 67       |            |          |          |              |              |                 |             |  |          |             | 1'   |            |          | T       |              | T       |          |              |           |          | Г        |
|          | 18       | =       |                    | _        | _        | _            |          |                   | L                              | _         |                                |          | 68       |            |          | _        |              | Ĺ            |                 |             |  |          |             | 1    | 18         |          | L       | $\perp$      |         |          |              |           |          |          |
|          | 19       | =       | -                  | _        | _        | _            |          |                   | Ļ.,                            | ├_        |                                |          | 69       | <u> </u>   | <u> </u> | ㄴ        | L            | L            | Ш               |             | 4  | _        | <u> </u>    |      | 19         |          | ╀       | 4            | 4       | 4        | 4            | _         |          |          |
| $\dashv$ | 20<br>21 | =       |                    | $\dashv$ | +        | -            |          | -                 | ┝                              | ╀         |                                |          | 70<br>71 | <u> </u>   | _        | ⊢        | _            | <u> </u>     | $\vdash$        | -           | +  | -        | <u> </u>    | 12   |            | $\perp$  | ╀       | +            | 4       | _        | 4            | _         |          | L        |
| $\dashv$ | 22       | =       | -                  | $\dashv$ | $\dashv$ | -+           |          | $\vdash$          | -                              | ╁         |                                | -        | 72       | -          | <u> </u> | H        | -            | <u> </u>     |                 | +           | +  | -        |             | 12   | 21         | +        | ╀       | +-           | +       | +        | $\dashv$     | -         |          | <u> </u> |
| -        | 23       | ▐       | +                  | $\dashv$ | +        | $\dashv$     | _        | $\vdash$          | $\vdash$                       | $\vdash$  | ł                              |          | 73       | ┢          | ┢        | ┢        | $\vdash$     | <del> </del> | $\vdash$        | $\dashv$    | +  | $\dashv$ |             |      | 23         | $\dashv$ | ╁       | ╌            | +       | +        | $\dashv$     |           | _        | ┝        |
| 一        | 24       | =       | 1                  | +        | 7        | $\neg$       |          | $\vdash$          | H                              | $\vdash$  |                                |          | 74       | $\vdash$   | -        | ┢        |              |              | H               | +           | +  | -        | -           | 12   |            | +-       | ╁       | +            | +       | +        | +            | -         |          | H        |
|          | 25       | =       | Ť                  | $\neg$   |          | ヿ            | _        |                   | Г                              | T         | 1                              |          | 75       |            |          | <u> </u> | Т            |              | П               | +           | $\top$   | ١.       |             |      | 25         | $\neg$   | 十       | ╁            | †       | 十        | $\dashv$     |           | _        | H        |
|          | 26       | =       |                    |          |          |              |          |                   |                                |           |                                |          | 76       |            |          |          |              |              |                 |             |  |          |             | 12   | 26         |          | T       | 十            | T       | 寸        | $\exists$    |           |          | T        |
|          | 27       | =       | _                  | _        | $\perp$  | _            |          |                   | L                              | <u> </u>  | ]                              |          | 77       |            |          |          |              |              |                 | $\Box$      |  |          |             | 12   |            |          | Ι       |              |         |          |              |           |          |          |
| _        | 28       | =       | _                  | 4        | 4        | _            |          | <u> </u>          | L                              | ↓_        |                                |          | 78       | _          | <u> </u> | <u> </u> |              | L            | Ш               |             | _  | 4        | <u> </u>    |      | 28         |          | 퇶       | $\perp$      | 1       |          | $\Box$       |           |          |          |
| $\dashv$ | 29       | =       | -                  | $\dashv$ | -        | _            |          | $\vdash$          | ⊢                              | $\vdash$  | 1                              |          | 79       | _          | _        | <u> </u> | H            | _            | ⊢┤              | +           | +  | - :::    | <u> </u>    |      | 29         |          | 1       | $\perp$      | +       | 4        | 4            | _         |          | $\vdash$ |
| $\dashv$ | 30<br>31 | =       | -+                 | $\dashv$ | $\dashv$ | $\dashv$     |          |                   | $\vdash$                       | ╄         | 1                              |          | 80<br>81 | ⊢          | $\vdash$ | -        | $\vdash$     | -            | $\vdash \vdash$ | +           | +  | - ::     | <b> </b>    | 13   | 30  <br>31 |          | +       | +            | +       | +        | $\dashv$     | _         | <u> </u> | ├-       |
| -        | 32       | =       | $\dashv$           | $\dashv$ | $\dashv$ | +            | -        | $\vdash$          | ┢                              | +         | 1                              |          | 82       | -          | -        | -        | ┢            |              | $\vdash$        | +           | +  | $\dashv$ | <u> </u>    |      | 31<br>32   | +        | ╁       | +            | +       | +        | $\dashv$     | $\dashv$  | <u> </u> | $\vdash$ |
| $\neg$   | 33       | =       | $\dashv$           | -        | +        | 寸            |          | $\vdash$          | H                              | $\vdash$  | 1                              |          | 83       | $\vdash$   | $\vdash$ | -        | $\vdash$     | $\vdash$     | H               | $\dashv$    | +  | -        | -           |      | 33         | -        | +       | +            | +       | +        | $\dashv$     | $\dashv$  |          | $\vdash$ |
| $\neg$   | 34       | =       | 寸                  | $\dashv$ | 7        | $\dashv$     |          | Г                 | Η                              | $\dagger$ |                                |          | 84       | Г          | $\vdash$ |          | T            | $\vdash$     | $\Box$          | $\dashv$    | $\top$   | 7        | -           | _    | 34         | +        | +       | +            | +       | +        | ┪            | $\dashv$  | -        | $\vdash$ |
|          | 35       |         | ↿                  |          | ╛        | ╛            |          |                   |                                |           |                                |          | 85       |            |          |          |              |              |                 |             | T  | ]        |             |      | 35         | 1        | T       | T            | 十       | $\top$   | $\dashv$     | $\neg$    |          | Τ        |
|          | 36       |         | 긔                  | コ        |          | $\Box$       |          |                   | L                              |           | ]                              |          | 86       |            |          |          |              |              | П               | $\Box$      | I  |          |             | 13   | 36         |          | I       | I            | $\perp$ | $\Box$   |              |           |          |          |
|          | 37       | =       | _                  | _        | _        | $\downarrow$ |          | <u> </u>          | <u> </u>                       | _         |                                |          | 87       | _          | L        | <u> </u> |              |              | Ц               |             |  | _        |             |      | 37         |          | L       | Ţ            | I       | $\bot$   | $\Box$       | $\Box$    |          |          |
|          | 38       |         | _                  | $\dashv$ | 4        | $\dashv$     |          | <u> </u>          | ▙                              | $\vdash$  |                                |          | 88       | <u> </u>   | _        | _        |              | _            | $\sqcup$        | _           | $\perp$  | 4        | <u> </u>    |      | 38         | $\perp$  | $\perp$ | 4            | 1       | $\perp$  | $\downarrow$ | _         | L        | L        |
| -        | 39<br>40 |         | $\dashv$           |          | 4        |              |          | $\vdash$          | $\vdash$                       | +         | 1                              | ļ        | 89       | <u> </u>   | <u> </u> | $\vdash$ | -            | -            | $\vdash$        | -           |  | - :::    | :: <b> </b> |      | 39         |          | +       | +            | +       | +        | 4            | _         | _        | $\vdash$ |
|          | 41       | 1       | $\dashv$           | -        | $\dashv$ | $\dashv$     | $\dashv$ | $\vdash$          | ⊢                              | $\vdash$  | 1                              |          | 90<br>91 | ⊢          | ┝        | $\vdash$ |              | -            | $\vdash \vdash$ | -           | +  | -        | <b> </b>    |      | 10<br>11   | +        | +       | +            | +       | +        | $\dashv$     |           | <u> </u> | -        |
|          | 42       | V       | $\dashv$           | $\dashv$ | $\dashv$ | ᅥ            | $\dashv$ | $\vdash$          | $\vdash$                       | +-        | ł                              | <u> </u> | 92       | $\vdash$   | $\vdash$ | $\vdash$ | $\vdash$     | ┢            | $\vdash \vdash$ | +           | +  | -        | <b> -</b>   |      | 12         |          | +       | +            | +       | +        | $\dashv$     | $\dashv$  |          | $\vdash$ |
|          | 43       | Ė       | ᅥ                  | 1        | 7        | $\dashv$     | $\dashv$ |                   | t                              | $\vdash$  |                                |          | 93       | $\vdash$   |          | $\vdash$ | H            | $\vdash$     | $\vdash$        | $\dashv$    | +  | -        |             |      | 13         | +        | +       | +            | +       | +        | $\dashv$     | $\dashv$  | -        | $\vdash$ |
|          | 44       | =       |                    | 1        | 7        | 7            |          | П                 | Π                              | T         | 1                              |          | 94       | Г          | $I^-$    | $\vdash$ |              | Г            | $\vdash$        | 十           | $\top$   | -        |             |      | 14         | $\top$   | T       | +            | +       | +        | $\dashv$     |           |          | $\vdash$ |
|          | 45       |         |                    |          |          |              |          |                   |                                |           |                                |          | 95       |            |          |          |              |              |                 |             | _  | ]        |             | 14   | 15         | _        | 丁       | $\top$       | 1       |          |              |           |          |          |
|          | 46       | =       |                    | $\Box$   | $\Box$   |              |          |                   |                                |           |                                |          | 96       |            |          |          |              |              |                 |             |  |          |             | 14   | 16         |          | Ι       | J            | _       | _†       | _†           |           |          |          |
| [        | 47       | =       |                    | $\prod$  | $\prod$  |              |          |                   |                                |           |                                |          | 97       |            |          |          | 匚            |              |                 |             |  | ]        |             | 14   | 17         |          | I       | 1            | I       |          |              |           |          |          |
|          | 48       | =       | $\dashv$           | 4        | _        | $\dashv$     |          | $\sqcup$          | _                              |           |                                |          | 98       | lacksquare | L        | <u> </u> | $oxed{oxed}$ | Ĺ            | Щ               | _           | $\perp$  | 4        |             | 14   | 18         | _[_      | Ĺ       | $\perp$      | $\perp$ | $\bot$   | $\Box$       | ]         |          | $\Box$   |
| _        | 49<br>50 | =       | 4                  | $\dashv$ | 4        | -            | -        | $\vdash$          | $\vdash$                       | +         |                                |          | 99       |            |          | <u> </u> |              | L            | $\vdash \vdash$ | $\dashv$    | +  | 4        | <b> </b>    |      | 19         | - -      | +       | $\downarrow$ | 4       | $\dashv$ | 4            | _         |          | <u> </u> |
|          | 50       | ا = ا   |                    |          | _1       | _1           |          |                   | L                              | <u> </u>  | Jiiiiii                        | L        | 100      | L          |          | <u> </u> | Ц_           | Ц_           | Ш               |             | L_   | :::      | ::L         | 115  | 50         | L_       | L.      | ᆚ            |         | ᆚ        |              |           | _        | L        |

Application No.

Annan Q Shang

09/521,240

Examiner

Index of Claims

Applicant(s)

Art Unit

2614

SUEMATSU ET AL.